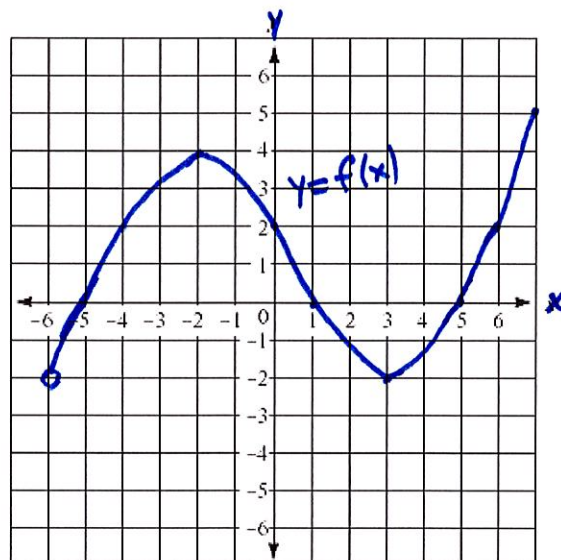


Name: _____

1. Given the graph of $f(x)$ shown to the right:



a) Determine the value of $f(0) =$

b) Determine the value of $f(x)$ when $x = -4$

c) Solve $f(x) = 5$

d) Determine the values of x for which $f(x) = 0$

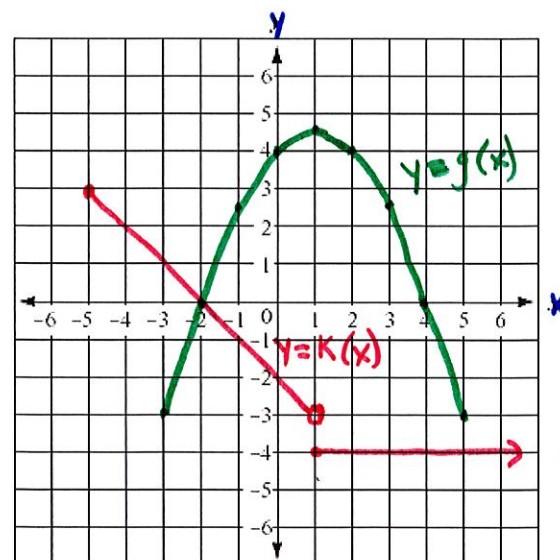
e) How many times does the line with equation $y = 4$ intersect the graph of $f(x)$?

f) On what intervals is $f(x) < 0$?

g) How many times does the line $y = -2$ intersect the graph of $f(x)$?

h) What is the relative minimum value of the graph of $f(x)$?

2. Given the graphs of $k(x)$ & $g(x)$ shown to the right:



a) Determine the domain of $g(x)$

b) Determine the range of $k(x)$

c) Determine the value of $g(k(-4))$

d) On what interval is the graph of $g(x)$ increasing?

e) On what interval is the graph of $k(x)$ decreasing?

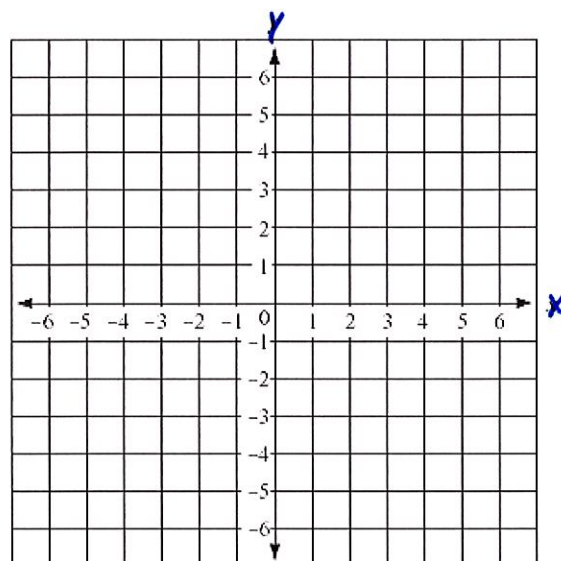
f) Determine the value of $g(0) + g(3)$

g) What is the value of $|k(-1)|$?

h) For what value of x does the graph of $g(x)$ have a relative maximum value?

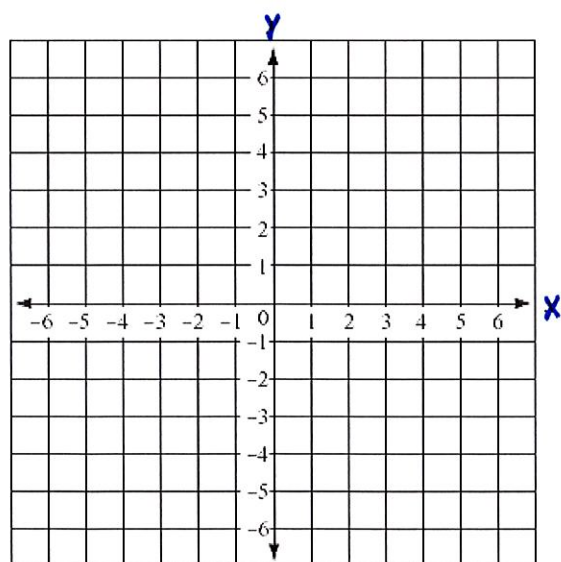
3. Sketch a graph of a function that has the given domain and range.

Domain: $[0, \infty)$ Range: $[2, \infty)$



4. Sketch a graph of a function that has the given domain and range.

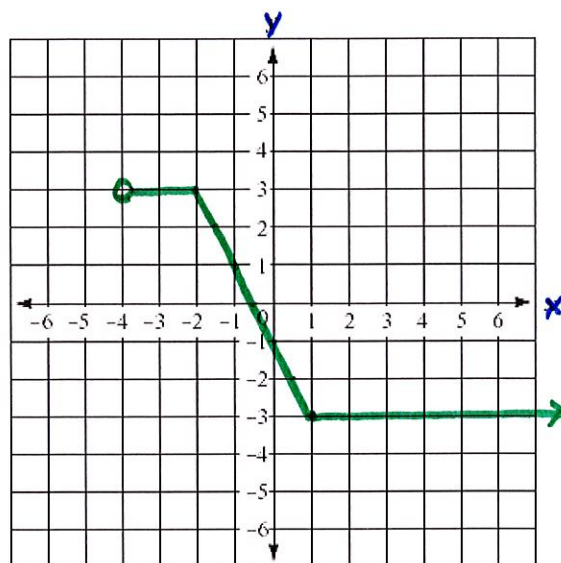
Domain: $[-4, 2]$ Range: $[1, 5]$



5. Given the graph of the function shown, clearly state the domain and range.

Domain:

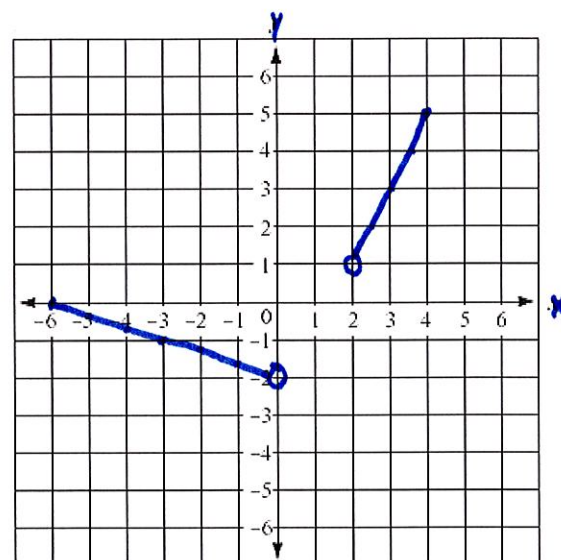
Range:



6. Given the graph of the function shown, clearly state the domain and range.

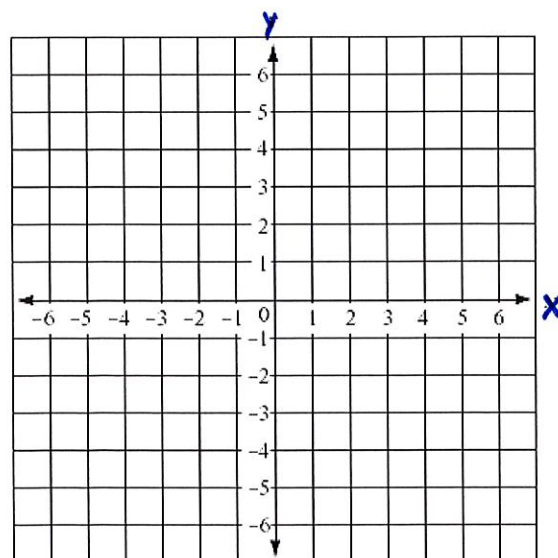
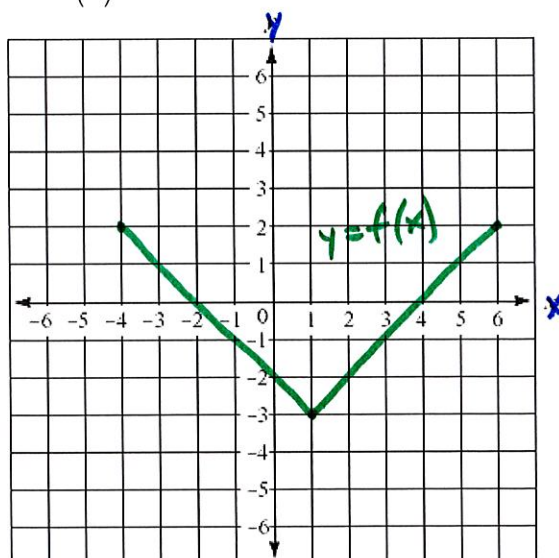
Domain:

Range:

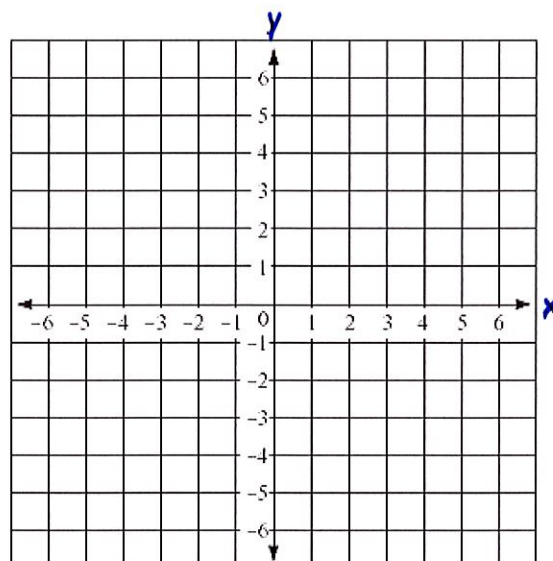
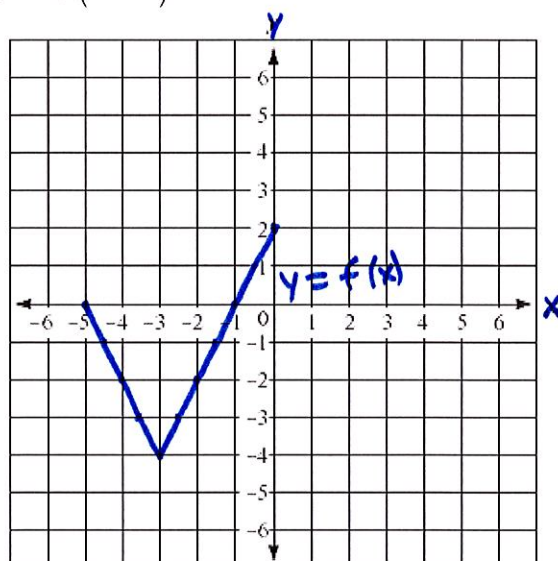


7. Given the graph of $f(x)$ shown below to the left, sketch a graph of the transformation

$y = f(x) + 2$ on the grid to the right.



8. Given the graph of $f(x)$ shown below to the left, sketch a graph of the transformation $y = f(x - 2)$ on the grid to the right.



9. Given the graph of $f(x)$ shown below to the right, sketch a graph of the transformation $y = -f(x)$ on the grid to the left.

